

NR 418.05
Green Bay and DePere RACT Sulfur Limitations

NR 418.05 Green Bay and DePere RACT sulfur limitations. (1) No person may cause, allow or permit sulfur dioxide to be emitted to the ambient air within the corporate boundaries of the cities of Green Bay and De Pere, Brown county, from any direct source on which construction or modification was commenced prior to February 1, 1984 in amounts greater than those specified in this subsection and sub. (2).

(a) Any electric utility shall comply with the following emission limitations:

1. Any electric utility boiler with the emission point at a height above ground of not less than 377 feet: 5.58 pounds of sulfur dioxide per million BTU heat input from the boiler to any stack.

2. Any electric utility boiler with the emission point at a height above ground of less than 377 feet: 0.5 pounds of sulfur dioxide per million BTU heat input from the boiler to any stack.

(b) Any ammonia based sulfite pulp and paper mill shall comply with the following emission limitations:

1. Any steam generating boiler capable of firing coal, spent sulfite liquor or other fuels: except as provided in subd. 2, 5.95 pounds of sulfur dioxide per million BTU heat input from the boiler to any stack.

2. If a fluidized bed combustor is operated at 106 million BTU per hour heat input or higher and its exhaust gases are vented to the stack servicing the steam generating boilers described in subd. 1., then: 10.74 pounds of sulfur dioxide per million BTU heat input from the boiler to any stack.

3. Any pulp digester blow stack: 6.03 pounds of sulfur dioxide per hour.

4. All brown stock washers: a total of 23.18 pounds of sulfur dioxide per hour, from all washers.

5. All paper dryers: a total of 94.13 pounds of sulfur dioxide per hour, from all dryers.

6. All other sources not described in subds. 1. to 6.: a total of 15.71 pounds of sulfur dioxide per hour.

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(c) Any paper mill in Green Bay located between milepoints 3.3 and 4.0 on the Fox river shall comply with the following emission limitations:

1. Fossil fuel fired steam generating boilers with the emission point at a height above ground of not less than 355 feet: 4.55 pounds of sulfur dioxide per million BTU heat input from the boilers to any stack.

2. Fossil fuel fired steam generating boilers with the emission point at a height above ground of less than 355 feet: 0.5 pounds of sulfur dioxide per million BTU heat input from the boilers to any stack.

3. All paper dryers: a total of 26.51 pounds of sulfur dioxide per hour from all dryers.

(d) Any paper mill in DePere located between milepoints 7.0 and 7.4 on the Fox river shall comply with the following emission limitations:

1. Any fossil fuel fired steam generating boiler rated at less than or equal to 100 million BTU per hour: 2.54 pounds of sulfur dioxide per million BTU heat input from the boiler to any stack.

2. Any fossil fuel fired steam generating boiler rated at greater than 100 million BTU per hour with the emission point at a height above ground of not less than 211 feet: 3.20 pounds of sulfur dioxide per million BTU heat input from the boiler to any stack.

3. Any fossil fuel fired steam generating boiler rated at greater than 100 million BTU per hour with the emission point at a height above ground of less than 211 feet: 0.5 pounds of sulfur dioxide per million BTU heat input from the boiler to any stack.

(e) Any neutral sulfite semichemical pulp and paper mill shall comply with the following emission limitations:

1. Steam generating boilers with the emission point at a height above ground of not less than 212 feet: 3.88 pounds of sulfur dioxide per million BTU heat input from the boilers to any stack when the boilers are fired at or below 158 million BTU per hour; 3.15 pounds of sulfur dioxide per million BTU heat input from the boilers to any stack when the boilers are fired at a rate greater than 158 million BTU per hour and less than 309 million BTU per hour; and 2.87 pounds of sulfur dioxide per million BTU heat input from the boilers to any stack when the boilers are fired at a rate of 309 million BTU per hour or greater.

2. Steam generating boilers with the emission point at a height above ground of less than 212 feet: 0.5 pounds of sulfur dioxide per million BTU heat input from the boilers to any stack.

(f) Any calcium based sulfite pulp and paper mill and any calcium based lignin chemical processing facility shall comply with the following emission limitations:

1. Fossil fuel fired steam generating boilers: 2.10 pounds of sulfur dioxide per million BTU heat input from the boilers to any stack when the boilers are fired above 360 million BTU per hour; and 2.31 pounds of sulfur dioxide per million BTU heat input from the boilers to any stack when the boilers are fired at or below 360 million BTU per hour.

2. All Jennsen acid towers: a total of 9.21 pounds of sulfur dioxide per hour from all towers.

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3. All brown stock washers: a total of 37.86 pounds of sulfur dioxide per hour from all washers.

4. All spent sulfite liquor spray dryers: a total of 25.71 pounds of sulfur dioxide per hour from all dryers.

(g) Any paper mill in Green Bay located between milepoints 0.4 and 0.7 on the East river shall comply with the following emission limitations:

1. Any fossil fuel fired steam generating boiler: 1.50 pounds of sulfur dioxide per million BTU heat input from the boiler to any stack.

2. All paper dryers: a total of 27.25 pounds of sulfur dioxide per hour from all dryers.

(2) In addition to the emission limitations specified in sub. (1), the following sources within the corporate boundaries of the cities of Green Bay and DePere, Brown county, shall comply with the annual emission limitations in this subsection during the period from January 1, 1984 to December 31, 1988.

(a) Any electric utility: The total emissions of sulfur dioxide from all electric utility boilers may not exceed 55,995 tons of sulfur dioxide per calendar year.

(b) Any ammonia based sulfite pulp and paper mill: The total emissions of sulfur dioxide from all steam generating boilers may not exceed 28,000 tons of sulfur dioxide per calendar year.

(c) Any paper mill in Green Bay located between milepoints 3.3 and 4.0 on the Fox river: The total emissions of sulfur dioxide from all steam generating boilers may not exceed 28,000 tons of sulfur dioxide per calendar year.

(d) Any paper mill in DePere located between milepoints 7.0 and 7.4 on the Fox river: The total emissions of sulfur dioxide from all steam generating boilers may not exceed 3,000 tons of sulfur dioxide per calendar year.

(e) Any neutral sulfite semichemical pulp and paper mill: The total emissions of sulfur dioxide from all steam generating boilers may not exceed 4,300 tons of sulfur dioxide per calendar year.

(f) Any calcium based sulfite pulp and paper mill: The total emissions of sulfur dioxide from all steam generating boilers may not exceed 3,780 tons of sulfur dioxide per calendar year.

(g) Any paper mill in Green Bay located between milepoints 0.4 and 0.7 on the East river: The total emissions of sulfur dioxide from all steam generating boilers may not exceed 1,100 tons of sulfur dioxide per calendar year.

(3) When a source is subject to the emission limitations of sub. (1), the owner or operator shall meet the following deadlines in achieving compliance with those emission limitations:

(a) Submit plans for achieving compliance within 6 months after February 1, 1984.

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(b) Award any necessary contracts within 9 months after February 1, 1984.

(c) Where physical alteration of the source is necessary to achieve compliance, commence construction within 12 months after February 1, 1984 and complete construction on or before November 9, 1985.

(d) Where only fuel modification or switching is necessary to achieve compliance, commence operation using new fuel on or before August 9, 1985.

(e) Achieve final compliance with the applicable emission limitations in sub. (1) and so certify to the department on or before November 9, 1985.

(4) For purposes of determining compliance with the emission limitations of subs. (1) and (2), the owner or operator of a source described in sub. (1) or (2) shall outline the specific methods for demonstrating compliance with the emission limitations to the satisfaction of the department in the compliance plans submitted under sub. (3) (a). The compliance demonstrations shall include, but not be limited to, the following requirements:

(a) Any facility which has solid fossil fuel fired or spent sulfite liquor fired steam generating boilers with a combined rated heat input capacity of greater than 500 million BTU per hour shall install, calibrate, maintain and operate a continuous emission monitor, utilizing equipment and procedures reviewed and approved by the department.

(b) Any facility which has solid fossil fuel fired steam generating boilers with a combined rated heat input capacity of less than 500 million BTU per hour shall collect and analyze a daily, as-fired sample of fuel used, utilizing equipment and procedures reviewed and approved by the department.

(c) Any facility which has liquid fossil fuel fired steam generating boilers shall collect and analyze a daily, as-fired sample of fuel used, utilizing equipment and procedures reviewed and approved by the department.

(d) Emissions from all other sources shall be determined by annual stack emissions testing or by such other appropriate methods reviewed and approved by the department.

(e) Quarterly reports in duplicate shall be submitted to the department's Lake Michigan District Headquarters, P.O. Box 10448, Green Bay, Wisconsin 54307-0448. The quarterly reports shall include, but not be limited to, excess emission reports for facilities with continuous emission monitors, amounts of fuel used, and fuel sampling and analysis reports for compliance under pars. (b) and (c).

(f) Each facility shall maintain complete records of emissions data and calculations used to verify emissions data at their premises and shall make such records available for inspection upon request by authorized representatives of the department during regular business hours.

(5) For purposes of determining the applicability of the boiler sizes and source capacities outlined in subs. (1) and (4), the capacity of a source

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and the size of a boiler of a described source shall be determined as of
May 31, 1983.

History: Renum. from NR 154.12 (7) and am. Register, September, 1986, No. 369, eff. 10-1-86.